

## ABSTRACT

Respective threshold value judging units 108-1 through 108-n compare the likelihoods calculated by the 5 corresponding likelihood calculators 106-1 through 106-n with threshold values stored in a threshold value buffer 109 in terms of size, and output signals, which show the corresponding likelihood in only a case where the likelihood is the threshold value or more, through a 10 likelihood transmission bus 110. The rank decision unit 112 ranks the symbols for which the likelihood is an appointed threshold value or more, on the basis of the likelihoods stored in the likelihood buffer 111, whereby 15 it is possible to relieve the traffic of a bus line and to suppress the amount of processing in a ranking process with respect to all non-demodulated symbols.